

IN THE CLAIMS:

Please CANCEL claims 1 and 12-15 and AMEND claims 2, 5, and 8-11 in accordance with the following:

1. (CANCELLED)

2. (CURRENTLY AMENDED) An injection mechanism of an injection molding machine according to ~~claim 1~~claim 3, wherein

the movable section of each of the linear motors comprises a polygonal prism having a plurality of pairs of ~~plane~~planes parallel to each other, and electrical elements of each of the linear motors are provided on the two planes parallel to each other, respectively; and

the fixed section of each of the linear motors is fixedly attached to the outer frame so that electrical elements of the fixed section face the electrical elements of the movable section of each of the linear motors, respectively.

3. (PREVIOUSLY PRESENTED) An injection mechanism of an injection molding machine using a linear motor as a driving source for driving an injection screw shaft in the axial direction, wherein the linear motor comprises:

a movable section linked to the injection screw shaft and extending in the axial direction;
an outer frame; and

a fixed section detachably attached to the outer frame and extending in the axial direction while facing the movable section,

wherein a plurality of the linear motors each comprised of the movable section, the outer frame and the fixed section are arranged to surround the screw shaft,

wherein the fixed section of each of the linear motors is detachably attached to the outer frame so that electrical elements of the fixed section face electrical elements of the movable section of each of the linear motors, respectively.

4. (PREVIOUSLY PRESENTED) An injection mechanism of an injection molding machine using a linear motor as a driving source for driving an injection screw shaft in the axial direction, wherein the linear motor comprises:

a movable section linked to the injection screw shaft and extending in the axial direction;
an outer frame; and

a fixed section detachably attached to the outer frame and extending in the axial direction while facing the movable section,

wherein a plurality of the linear motors each comprised of the movable section, the outer frame and the fixed section are arranged to surround the screw shaft,

wherein a hole section is provided in the outer frame, the fixed section of each of the linear motors is comprised of a lid closing the hole section, and electrical elements of the fixed section of each of the linear motors are fixedly attached to an inside of the lid.

5. (CURRENTLY AMENDED) An injection mechanism of an injection molding machine according to ~~claim 4~~claim 3, wherein one end of the screw shaft is attached to a moving plate constituting the injection molding machine such that it can rotate but cannot move linearly, and the movable section of each of the linear motors is fixed to the moving plate.

6. (ORIGINAL) An injection mechanism of an injection molding machine according to claim 5, wherein the movable section of each of the linear motors is fixed to the moving plate through a load cell.

7. (PREVIOUSLY PRESENTED) An injection mechanism of an injection molding machine according to claim 2, wherein the movable section of each of the linear motors is comprised of a prism having a rectangular cross section, and electrical elements of the linear motors are provided on four planes of the prism, respectively.

8. (CURRENTLY AMENDED) An injection mechanism of an injection molding machine according to ~~claim 1~~claim 3, wherein a cylinder for containing inside the injection screw shaft is attached to a front plate constituting the injection molding machine, the outer frame constituting the linear motor is fixedly attached to the front plate.

9. (CURRENTLY AMENDED) An injection mechanism of an injecting molding machine according to ~~claim 1~~claim 3, wherein the outer frame and the fixed section constitute one linear motion.

10. (CURRENTLY AMENDED) An injection mechanism of an injection molding machine according to ~~claim 1~~claim 3, wherein a linear guide for linearly moving the movable section is formed on one constituent member of the outer frame.

11. (CURRENTLY AMENDED) An injection mechanism of an injection molding machine according to ~~claim 1~~claim 3, wherein a measuring shaft is linked to one end of the screw shaft, and the measuring shaft passes through a penetrating hole provided in a center of the movable section.

12-15. (CANCELLED)